

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	508	@ad<="20040120" and "heat pipe" and (die or chip or 'IC') and resin	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/12 14:33
L2	2	("4727455").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/12 16:09
L3	29	("4212349"   "4327399"   "4551787").PN. OR ("4727455").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/12 14:30
L4	7	@ad<="20040120" and "heat pipe" and "power chip" and resin	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/12 14:40
L5	851	@ad<="20040120" and conduct\$3 with "heat pipe" and (chip or "IC" or die)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/12 14:41
L6	211	@ad<="20040120" and conduct\$3 with "heat pipe" and ((chip or "IC" or die) with power)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/12 14:41
L7	17	@ad<="20040120" and conduct\$3 with "heat pipe" same (power with (chip or "IC" or die))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/12 14:41
L8	401	@ad<="20040120" and (361/689).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/12 15:39
L9	2	("6992887").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/12 15:40

## EAST Search History

L10	31	("20030133268"   "2942165"   "4012770"   "4106188"   "4381818"   "4995451"   "5150274"   "5210440"   "5262921"   "5349498"   "5448108"   "5455458"   "5606201"   "5780928"   "5880524"   "5966291"   "5986885"   "6016007"   "6037658"   "6055154"   "6141219"   "6397450"   "6400012"   "6414867"   "6424531"   "6473303"   "6535388"   "6594149"   "6892796"   "6937471").PN. OR ("6992887"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/12 15:42
L11	34	"North Mark"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/12 15:49
L12	5	"North Mark" and "heat pipe"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/12 15:51
L13	2	("6637502").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/12 15:51
L14	29	("4212349"   "4327399"   "4551787").PN. OR ("4727455"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/12 16:09
S1	2	"20040057214"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 17:31
S2	1	@ad<="20020716" and 'multichip modules' and 'IC' and 'PCB' and 'vapor chamber'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 16:10
S3	1	"6429513".PN.	USPAT; USOCR	OR	ON	2004/11/17 17:32
S4	2	@ad<="20020716" and 'multichip modules' and 'IC' and 'vapor chamber'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/19 10:43
S5	14	@ad<="20020716" and 'multichip modules' and 'IC' and 'lid' and 'dissipating'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 17:41

## EAST Search History

S6	5	@ad<="20020716" and 'multichip modules' and 'IC' and 'hollow' same 'heat'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 17:41
S7	31	@ad<="20020716" and 'multichip modules' and 'hollow' same 'heat'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 17:44
S8	1	"6429513".PN.	USPAT; USOCR	OR	ON	2004/11/17 17:48
S9	1	"6212074".PN.	USPAT; USOCR	OR	ON	2004/11/17 17:48
S10	1	"6166908".PN.	USPAT; USOCR	OR	ON	2004/11/17 17:49
S11	1	"6091603".PN.	USPAT; USOCR	OR	ON	2004/11/17 17:50
S12	81	@ad<="20020716" and 'heat sink' same 'vapor chamber'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/17 17:50
S13	1	"6429513".PN.	USPAT; USOCR	OR	ON	2004/11/18 07:40
S14	1	"5880524".PN.	USPAT; USOCR	OR	ON	2004/11/18 07:40
S15	1	"5915463".PN.	USPAT; USOCR	OR	ON	2004/11/18 07:40
S16	6	@ad<="20020716" and 'MCM' and 'vapor chamber' and 'heat sink'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/19 10:56
S17	81	@ad<="20020716" and 'vapor chamber' same 'heat sink'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/18 10:24
S18	1	"6237223".PN.	USPAT; USOCR	OR	ON	2004/11/18 08:11
S19	1	"6062302".PN.	USPAT; USOCR	OR	ON	2004/11/18 08:12
S20	1	"5864466".PN.	USPAT; USOCR	OR	ON	2004/11/18 08:12
S21	1	"5704416".PN.	USPAT; USOCR	OR	ON	2004/11/18 08:12
S22	1	"5647430".PN.	USPAT; USOCR	OR	ON	2004/11/18 08:13
S23	1	"6269865".PN.	USPAT; USOCR	OR	ON	2004/11/18 08:14

## EAST Search History

S24	1	"6269865".PN.	USPAT; USOCR	OR	ON	2004/11/18 08:14
S25	1	"6164368".PN.	USPAT; USOCR	OR	ON	2004/11/18 08:14
S26	1339	@ad<="20020716" and (438/122-123).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/18 09:00
S27	647	@ad<="20020716" and (438/125). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/18 09:01
S28	115	@ad<="20020716" and (438/55). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/18 09:01
S29	1496	@ad<="20020716" and (257/706-707).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/18 09:01
S30	1483	@ad<="20020716" and (257/704-705).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/14 16:40
S31	719	@ad<="20020716" and (257/675). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/18 09:02
S32	874	@ad<="20020716" and (257/717). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/18 10:12
S33	1041	@ad<="20020716" and (257/721-722).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/18 09:02
S34	1922	@ad<="20020716" and (361/704). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/18 09:02
S35	556	@ad<="20020716" and (361/709). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/18 09:03

## EAST Search History

S36	130	@ad<="20020716" and (361/711). cccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/18 09:03
S37	336	@ad<="20020716" and (361/717). cccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/18 09:03
S38	929	@ad<="20020716" and (361/719). cccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/18 09:04
S39	797	@ad<="20020716" and (361/690-691).cccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/18 09:04
S40	1055	@ad<="20020716" and (165/104. 33).cccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/18 09:04
S41	848	@ad<="20020716" and (165/104. 21).cccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/18 09:04
S42	1	"5751062".PN.	USPAT; USOCR	OR	ON	2004/11/18 09:35
S43	1	"5930115".PN.	USPAT; USOCR	OR	ON	2004/11/18 10:06
S44	1	"5880930".PN.	USPAT; USOCR	OR	ON	2004/11/18 10:06
S45	1	"5625227".PN.	USPAT; USOCR	OR	ON	2004/11/18 10:06
S46	1	"5345107".PN.	USPAT; USOCR	OR	ON	2004/11/18 10:06
S47	1	"4612978".PN.	USPAT; USOCR	OR	ON	2004/11/18 10:09
S48	1	"5179500".PN.	USPAT; USOCR	OR	ON	2004/11/18 10:09
S49	1	"5325265".PN.	USPAT; USOCR	OR	ON	2004/11/18 10:09
S50	1	"5704416".PN.	USPAT; USOCR	OR	ON	2004/11/18 10:09
S51	1	"5880524".PN.	USPAT; USOCR	OR	ON	2004/11/18 10:10
S52	1	"5915463".PN.	USPAT; USOCR	OR	ON	2004/11/18 10:10

## EAST Search History

S53	1	"6085831".PN.	USPAT; USOCR	OR	ON	2004/11/18 10:10
S54	1	"6091603".PN.	USPAT; USOCR	OR	ON	2004/11/18 10:10
S55	1	"5880524".PN.	USPAT; USOCR	OR	ON	2004/11/18 10:11
S56	33	@ad<="20020716" and (257/717). ccls. and 'chamber'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/14 16:42
S57	43	@ad<="20020716" and (257/717). ccls. and 'pipe'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/18 10:13
S58	67	@ad<="20020716" and 'chamber' same 'heat spreader'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/18 10:24
S59	206	@ad<="20020716" and 'pipe' same 'heat spreader'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/18 10:25
S60	9	@ad<="20020716" and 'heatpipe' same 'heat spreader'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/18 10:25
S61	190	@ad<="20020716" and 'heat pipe' same 'heat spreader'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/19 10:52
S62	1	"5325265".PN.	USPAT; USOCR	OR	ON	2004/11/19 09:36
S63	1	"5704416".PN.	USPAT; USOCR	OR	ON	2004/11/19 09:36
S64	0	@ad<="20020716" and 'multichip modules' and 'IC' and 'stiffener' with 'poldermer'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/19 10:47
S65	42	@ad<="20020716" and 'PGA' same 'substrate' with 'polymer'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/19 10:47

## EAST Search History

S66	6	@ad<="20020716" and 'multichip modules' and 'IC' and 'stiffener' with 'polymer'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/19 10:47
S67	0	@ad<="20020716" and 'heat pipe' same 'heat spreader' and 'substrate' with 'polymer'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/19 10:52
S68	50	@ad<="20020716" and 'heat pipe' and 'substrate' with 'polymer'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/19 10:53
S69	112	@ad<="20020716" and 'MCM' and 'heat sink' and 'substrate' with 'polymer'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/19 11:06
S70	3	@ad<="20020716" and 'MCM' same 'heat sink' same 'substrate' with 'polymer'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/19 10:56
S71	0	@ad<="20020716" and 'MCM' and 'package substrate' with 'polymer' with 'ceramic'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/19 11:06
S72	6	@ad<="20020716" and 'MCM' and 'package substrate' with 'polymer'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/15 09:48
S73	3	@ad<="20020716" and 'package substrate' with 'polymer' with 'ceramic'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/14 16:09
S74	6	Alcoe-David.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/14 15:31
S75	33	'Alcoe David J'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 16:00
S76	22	'Alcoe David J' and 'CTE'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/14 15:32

## EAST Search History

S77	1	"6429513".PN.	USPAT; USOCR	OR	ON	2005/03/14 15:35
S78	419	@ad<="20020716" and 'package' and 'chamber' and ('coefficient of thermal expansion' or 'CTE')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/14 16:10
S79	5	@ad<="20020716" and 'package' and 'vapor chamber' and ('coefficient of thermal expansion' or 'CTE')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/14 17:17
S80	15	@ad<="20020716" and 'vapor chamber' and ('coefficient of thermal expansion' or 'CTE')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/14 17:18
S81	7	@ad<="20020716" and 'lidded package' and ('coefficient of thermal expansion' or 'CTE')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/14 17:19
S82	32	@ad<="20020716" and ('multichip modules' or 'MCM') and 'substrate' with 'ceramic' with 'fiberglass'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/15 07:19
S83	3	@ad<="20020716" and ('multichip modules' or 'MCM') and 'heat sink' and 'substrate' with 'ceramic' with 'fiberglass'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/15 07:19
S84	1	"6392890".PN.	USPAT; USOCR	OR	ON	2005/03/15 07:32
S85	1	"6292369".PN.	USPAT; USOCR	OR	ON	2005/03/15 07:32
S86	1	"5387815".PN.	USPAT; USOCR	OR	ON	2005/03/15 07:32
S87	1	"6288900".PN.	USPAT; USOCR	OR	ON	2005/03/15 07:37
S88	1	"6264882".PN.	USPAT; USOCR	OR	ON	2005/03/15 07:38
S89	1	"4425195".PN.	USPAT; USOCR	OR	ON	2005/03/15 07:38
S90	1	"6114048".PN.	USPAT; USOCR	OR	ON	2005/03/15 07:38
S91	1	"6097602".PN.	USPAT; USOCR	OR	ON	2005/03/15 07:39
S92	1	"5945217".PN.	USPAT; USOCR	OR	ON	2005/03/15 07:39



## EAST Search History

S93	14	@ad<="20020716" and 'MCM' and 'package substrate' same 'lid'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/15 09:48
S94	172	@ad<="20020716" and 'package substrate' same 'lid'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/15 09:48
S95	7	'hong xie'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 16:03
S97	142	'xie' and 'intel'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 16:04
S98	16	@ad<="20020716" and 'Heat pipe lid'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 16:17
S99	1	"5751062".PN.	USPAT; USOCR	OR	ON	2005/06/23 16:10
S10 0	1	"5625227".PN.	USPAT; USOCR	OR	ON	2005/06/23 16:11
S10 1	1	"5365400".PN.	USPAT; USOCR	OR	ON	2005/06/23 16:11
S10 2	1	"5349237".PN.	USPAT; USOCR	OR	ON	2005/06/23 16:11
S10 3	1	"5345107".PN.	USPAT; USOCR	OR	ON	2005/06/23 16:11
S10 4	1	"5329993".PN.	USPAT; USOCR	OR	ON	2005/06/23 16:12
S10 5	1	"5283715".PN.	USPAT; USOCR	OR	ON	2005/06/23 16:12
S10 6	1	"20030128521".PN.	US-PGPUB	OR	ON	2005/06/23 16:12
S10 7	1	"20020132896".PN.	US-PGPUB	OR	ON	2005/06/23 16:13
S10 8	1	"5403783".PN.	USPAT; USOCR	OR	ON	2005/06/23 16:13
S10 9	1	"5355942".PN.	USPAT; USOCR	OR	ON	2005/06/23 16:14
S11 0	1	"5323292".PN.	USPAT; USOCR	OR	ON	2005/06/23 16:14
S11 1	1	"4880052".PN.	USPAT; USOCR	OR	ON	2005/06/23 16:15

## EAST Search History

S11 5	3	@ad<="20020716" and 'Heat pipe' and 'sub-chamber' and 'heat sink'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 16:20
S11 6	6	@ad<="20020716" and 'Heat pipe' and 'sub-chamber'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 16:21
S11 8	260	@ad<="20020716" and 'Heat pipe' same 'support' and 'heat sink'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/16 13:15
S11 9	0	@ad<="20020716" and 'Heat pipe' same 'chamber' and 'wiring board' with 'ceramic'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/27 12:07
S12 0	12	@ad<="20020716" and 'Heat pipe' same 'chamber' and 'board' with 'ceramic'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/27 12:41
S12 1	168	@ad<="20020716" and 'PCB' with 'ceramic' and 'heat sink'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/27 12:42
S12 2	0	@ad<="20020716" and 'PCB' with 'ceramic' with 'polymer' and 'heat sink'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 12:28
S12 3	39	@ad<="20020716" and 'PCB' with 'ceramic' same 'heat sink'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/27 12:44
S12 4	3	@ad<="20020716" and 'vapor chamber' and 'PCB' with 'ceramic' and 'heat sink'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/27 12:52
S12 5	176	@ad<="20020716" and 'vapor chamber' and 'heat pipe'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 09:02
S12 6	8	@ad<="20020716" and 'Heat pipe' same 'lid' with 'support'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 08:24

## EAST Search History

S12 7	2	@ad<="20020716" and 'Heat pipe lid' same 'support'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 13:56
S12 8	174	@ad<="20020716" and 'vapor chamber' same 'support'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 08:26
S12 9	1	"6469893".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:31
S13 0	1	"6381135".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:31
S13 1	1	"6347036".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:31
S13 2	1	"6031716".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:31
S13 3	1	"5549155".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:31
S13 4	1	"5751062".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:37
S13 5	1	"5585671".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:38
S13 6	1	"5345107".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:39
S13 7	1	"5276289".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:45
S13 8	1	"4649990".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:46
S13 9	1	"5751062".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:47
S14 0	1	"5625227".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:47
S14 1	1	"5625227".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:49
S14 2	1	"5455458".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:49
S14 3	1	"5448108".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:49
S14 4	1	"5373417".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:49
S14 5	1	"5305184".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:49
S14 6	1	"5270572".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:49
S14 7	1	"5625227".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:52

## EAST Search History

S14 8	1	"5365400".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:52
S14 9	1	"5349237".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:53
S15 0	1	"5345107".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:53
S15 1	1	"5329993".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:54
S15 2	1	"5291064".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:54
S15 3	1	"5291064".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:54
S15 4	1	"5283715".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:54
S15 5	1	"5268812".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:55
S15 6	1	"5253702".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:55
S15 7	1	"5239200".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:55
S15 8	1	"5198889".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:56
S15 9	1	"5077601".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:57
S16 0	1	"5046552".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:58
S16 1	1	"5023695".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:58
S16 2	1	"5019880".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:58
S16 3	1	"4996589".PN.	USPAT; USOCR	OR	ON	2005/10/13 08:59
S16 4	1	"4966226".PN.	USPAT; USOCR	OR	ON	2005/10/13 09:00
S16 5	1	"4996589".PN.	USPAT; USOCR	OR	ON	2005/10/13 09:00
S16 6	1	"4982274".PN.	USPAT; USOCR	OR	ON	2005/10/13 09:00
S16 7	1	"4931905".PN.	USPAT; USOCR	OR	ON	2005/10/13 09:01
S16 8	445	@ad<="20020716" and ('heatpipe' or 'heat pipe') and 'bellow'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 09:03

## EAST Search History

S16 9	214	@ad<="20020716" and ('heatpipe' or 'heat pipe') same 'bellow'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 09:04
S17 0	171	@ad<="20020716" and ('heatpipe' or 'heat pipe') with 'bellow'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 09:04
S17 1	65	@ad<="20020716" and 'PCB' with ('polytetrafluoroethylene' or 'PTFE')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 12:47
S17 3	435	@ad<="20020716" and 'substrate' with ('polytetrafluoroethylene' or 'PTFE') with 'ceramic'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 12:48
S17 4	156	@ad<="20020716" and 'substrate' with 'polymer' with ('polytetrafluoroethylene' or 'PTFE') with 'ceramic'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 12:49
S17 5	13	@ad<="20020716" and 'substrate' with 'polymer' with ('polytetrafluoroethylene' or 'PTFE') with 'ceramic' and 'packaging'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 12:49
S17 6	10	@ad<="20020716" and 'substrate' with 'polymer' with ('polytetrafluoroethylene' or 'PTFE') with 'ceramic' and 'packaging' and 'chip'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 12:53
S17 7	102	@ad<="20020716" and ('polytetrafluoroethylene' or 'PTFE') with 'substrate' same 'chip'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 13:15
S17 8	170	@ad<="20020716" and 'CTE' with ('polytetrafluoroethylene' or 'PTFE')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 13:16
S17 9	7	@ad<="20020716" and 'CTE' with 'polytetrafluoroethylene'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 13:18
S18 0	1019	@ad<="20020716" and 'CTE' with 'silicon'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 13:18

## EAST Search History

S18 1	518	@ad<="20020716" and 'CTE' with 'copper'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 13:18
S18 2	80	@ad<="20020716" and 'Heat pipe' same 'support' and 'heat sink' and 'chamber'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/16 13:56
S18 3	29	@ad<="20020716" and 'Heat pipe' same 'support' and 'VAPOR chamber'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/16 14:00
S18 4	179	@ad<="20020716" and 'Heat pipe' and 'vapor chamber'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/16 14:01
S18 5	265	@ad<="20020716" and 'Heat pipe' same 'support' and 'chamber'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/16 14:00
S18 6	113	@ad<="20020716" and 'Heat pipe' and 'vapor chamber' and 'heat sink'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/16 14:28
S18 7	291	@ad<="20020716" and 'Heat pipe' with 'chamber' and 'heat sink'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/16 14:38
S18 8	19	@ad<="20020716" and 'Heat pipe chamber' and 'heat sink'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/16 14:32
S18 9	48	@ad<="20020716" and 'Heat pipe chamber'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/16 14:32
S19 0	309	@ad<="20020716" and 'Heat pipe' and 'intel'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/16 14:38
S19 1	1	"5880524".PN.	USPAT; USOCR	OR	ON	2005/12/16 14:43
S19 2	1	"5751062".PN.	USPAT; USOCR	OR	ON	2005/12/16 14:43

## EAST Search History

S19 3	1	"5625227".PN.	USPAT; USOCR	OR	ON	2005/12/16 14:43
S19 4	1	"5365400".PN.	USPAT; USOCR	OR	ON	2005/12/16 14:43
S19 5	1	"5349237".PN.	USPAT; USOCR	OR	ON	2005/12/16 14:44
S19 6	1	"5345107".PN.	USPAT; USOCR	OR	ON	2005/12/16 14:44
S19 7	1	"5329993".PN.	USPAT; USOCR	OR	ON	2005/12/16 14:44
S19 8	1	"5291064".PN.	USPAT; USOCR	OR	ON	2005/12/16 14:44
S19 9	1	"5283715".PN.	USPAT; USOCR	OR	ON	2005/12/16 14:45
S20 0	1	"5268812".PN.	USPAT; USOCR	OR	ON	2005/12/16 14:45
S20 1	1	"5253702".PN.	USPAT; USOCR	OR	ON	2005/12/16 14:45
S20 2	1	"5239200".PN.	USPAT; USOCR	OR	ON	2005/12/16 14:45
S20 3	1	"5198889".PN.	USPAT; USOCR	OR	ON	2005/12/16 14:45
S20 4	1	"4982274".PN.	USPAT; USOCR	OR	ON	2005/12/16 14:46
S20 5	1	"5780928".PN.	USPAT; USOCR	OR	ON	2005/12/16 14:46
S20 6	1	"5699227".PN.	USPAT; USOCR	OR	ON	2005/12/16 14:46
S20 7	1	"5367765".PN.	USPAT; USOCR	OR	ON	2005/12/16 14:47
S20 8	1	"5291064".PN.	USPAT; USOCR	OR	ON	2005/12/16 14:47
S20 9	1	"4620216".PN.	USPAT; USOCR	OR	ON	2005/12/16 14:47
S21 0	2	"20050046020"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 06:25
S21 1	813	@ad<="20040120" and (257/675). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 07:03
S21 2	4286	@ad<="20040120" and (257/712-714).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 07:38

## EAST Search History

S21 3	2936	@ad<="20040120" and (257/715-718).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 06:26
S21 4	747	@ad<="20040120" and (257/728).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 06:26
S21 5	4	((("6670699") or ("4079410")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 06:27
S21 7	20	@ad<="20040120" and 'heat pipe' same 'coolant' same 'lead'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 07:04
S21 8	98	@ad<="20040120" and ('heat pipe' or 'heat sink') same 'coolant' same 'lead'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 07:41
S21 9	1	"6388317".PN.	USPAT; USOCR	OR	ON	2006/01/30 07:16
S22 0	1	"6323549".PN.	USPAT; USOCR	OR	ON	2006/01/30 07:16
S22 1	1	"6257320".PN.	USPAT; USOCR	OR	ON	2006/01/30 07:19
S22 2	1	"6219243".PN.	USPAT; USOCR	OR	ON	2006/01/30 07:19
S22 3	725	@ad<="20040120" and (257/720).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 07:38
S22 4	240	@ad<="20040120" and (257/721).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 07:38
S22 5	976	@ad<="20040120" and (257/722).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 07:38
S22 6	1294	@ad<="20040120" and (257/714).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 09:27



## EAST Search History

S22 8	115	@ad<="20040120" and ('heat pipe' with cool\$3 same 'die'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 08:03
S22 9	1165	@ad<="20040120" and (257/E23. 088).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 08:03
S23 0	31	@ad<="20040120" and 'heat pipe' with 'lead' and cool\$3 and ('IC' or 'die' or 'chip')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:23
S23 1	90	@ad<="20040120" and 'heat pipe' with ('lead' or wir\$3) and cool\$3 and ('IC' or 'die' or 'chip')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 06:30
S23 2	1	"5671804".PN.	USPAT; USOCR	OR	ON	2006/01/30 08:25
S23 3	1	"5642776".PN.	USPAT; USOCR	OR	ON	2006/01/30 08:25
S23 4	1	"5427174".PN.	USPAT; USOCR	OR	ON	2006/01/30 08:26
S23 5	1	"5346000".PN.	USPAT; USOCR	OR	ON	2006/01/30 08:26
S23 6	1	"5179500".PN.	USPAT; USOCR	OR	ON	2006/01/30 08:26
S23 8	16	@ad<="20040120" and 'liquid cooling plate' and ('IC' or 'die' or 'chip')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 08:43
S24 0	113	@ad<="20040120" and 'liquid' with cool\$3 with ('lead' or 'terminal') same ('IC' or 'die' or 'chip')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 09:07
S24 1	12	@ad<="20040120" and 'liquid' with cool\$3 with ('lead' or 'terminal') same ('IC' or 'die' or 'chip') and encapsul\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 08:44
S24 2	1	"5287001".PN.	USPAT; USOCR	OR	ON	2006/01/30 08:46
S24 3	1	"5216278".PN.	USPAT; USOCR	OR	ON	2006/01/30 08:47
S24 4	1	"5453641".PN.	USPAT; USOCR	OR	ON	2006/01/30 08:55

## EAST Search History

S24 5	142	@ad<="20040120" and ('liquid' with cool\$3 or 'heat pipe') with ('lead' or 'terminal') same ('IC' or 'die' or 'chip')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 09:08
S24 6	0	@ad<="20040120" and 'heat pipe' with 'external terminal' same ('IC' or 'die' or 'chip')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 09:09
S24 7	273	@ad<="20040120" and 'heat pipe' with ('external terminal' or 'lead')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 09:09
S24 8	51	@ad<="20040120" and 'heat pipe' with ('external terminal' or 'lead') and ('die' or 'chip' or 'IC')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/12 14:28
S24 9	1	"5671804".PN.	USPAT; USOCR	OR	ON	2006/01/30 09:15
S25 0	1	"5642776".PN.	USPAT; USOCR	OR	ON	2006/01/30 09:15
S25 1	1	"5427174".PN.	USPAT; USOCR	OR	ON	2006/01/30 09:15
S25 2	1	"5346000".PN.	USPAT; USOCR	OR	ON	2006/01/30 09:15
S25 3	1	"5436501".PN.	USPAT; USOCR	OR	ON	2006/01/30 09:20
S25 4	1	"5349237".PN.	USPAT; USOCR	OR	ON	2006/01/30 09:21
S25 5	1	"5206791".PN.	USPAT; USOCR	OR	ON	2006/01/30 09:21
S25 6	1	"5172213".PN.	USPAT; USOCR	OR	ON	2006/01/30 09:21
S25 7	1	"5172213".PN.	USPAT; USOCR	OR	ON	2006/01/30 09:24
S25 8	1	"5436501".PN.	USPAT; USOCR	OR	ON	2006/01/30 09:25
S25 9	1	"5349237".PN.	USPAT; USOCR	OR	ON	2006/01/30 09:25
S26 0	1	"5105259".PN.	USPAT; USOCR	OR	ON	2006/01/30 09:25
S26 1	1	"4912548".PN.	USPAT; USOCR	OR	ON	2006/01/30 09:26
S26 2	642	@ad<="20040120" and (257/715). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:00

## EAST Search History

S26 3	528	@ad<="20040120" and (257/714). ccls. and coolant	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 09:28
S26 4	110	@ad<="20040120" and (257/714). ccls. and coolant and terminal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 09:28
S26 5	197	@ad<="20040120" and (257/715). ccls. and 'coolant'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:00
S26 6	2	"20020185726"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:19
S26 7	237	@ad<="20040120" and 'terminal' same 'liquid' with cool\$3 and ('IC' or 'die' or 'chip')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:25
S26 8	106	@ad<="20040120" and 'terminal' same 'liquid' with cool\$3 same ('IC' or 'die' or 'chip')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 12:15
S26 9	8	@ad<="20040120" and 'terminal' same 'liquid cooling' same ('IC' or 'die' or 'chip')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 10:26
S27 0	1	"5598034".PN.	USPAT; USOCR	OR	ON	2006/01/30 10:30
S27 1	1	"5491362".PN.	USPAT; USOCR	OR	ON	2006/01/30 10:31
S27 2	1	"5485037".PN.	USPAT; USOCR	OR	ON	2006/01/30 10:31
S27 3	2	("5869883").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 12:15
S27 4	197	@ad<="20040120" and 'heat pipe' same 'inner' with ('dielectric' or insulat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 13:57

## EAST Search History

S27 5	123	@ad<="20040120" and 'heat pipe' with 'inner' with ('dielectric' or insulat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 14:02
S27 6	174	@ad<="20040120" and insulat\$4 with 'heat pipe' and 'semiconductor'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 14:07
S27 7	0	@ad<="20040120" and 'inner coated' with 'heat pipe' and 'semiconductor'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 14:07
S27 8	248	@ad<="20040120" and 'inner' with 'heat pipe' and 'semiconductor'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 14:08
S27 9	0	@ad<="20040120" and 'inner' with 'diel' with 'heat pipe' and 'semiconductor'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 14:08
S28 0	0	@ad<="20040120" and 'inner' with 'dielectric' with 'heat pipe' and 'semiconductor'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 14:08
S28 1	3	@ad<="20040120" and 'inner' with 'insulation' with 'heat pipe' and 'semiconductor'	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 14:12
S28 3	248	@ad<="20040120" and insul\$3 with 'heat' same cool\$3 and ('die' or 'IC' or 'chip')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 14:16
S28 4	12	@ad<="20040120" and insul\$3 with 'heat' with 'pipe' same cool\$3 and ('die' or 'IC' or 'chip')	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/30 14:16
S28 5	2	"20050046020"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/13 11:12
S28 6	0	("2005/0046020").URPN.	USPAT	OR	ON	2006/07/26 17:15

## EAST Search History

S29 0	27	@ad<="20040120" and cool\$4 with "conductive pipe" same ("IC" or die or chip or power)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 17:22
S29 1	27	@ad<="20040120" and "conductive pipe" with cool\$5 same ("IC" or die or chip or power)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 17:20
S29 2	188	@ad<="20040120" and cool\$4 with (conductive with (pipe or tupe)) same ("IC" or die or chip or power)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 06:10
S29 3	4	((("6670699") or ("4079410"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/27 05:55
S29 4	12	("4860165"   "5986885"   "6032355"   "6122171"   "6219243"   "6257320"   "6323549"   "6388317").PN. OR ("6670699").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/27 05:57
S29 5	355	@ad<="20040120" and cool\$4 with (conductive with (pipe or tube)) same ("IC" or die or chip or power)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 06:12
S29 6	1	@ad<="20040120" and refrigerant with (coolant or liquid) with (conductive with (pipe or tube)) same ("IC" or die or chip or power)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 06:13
S29 7	5	@ad<="20040120" and refrigerant with (coolant or liquid) same (conductive with (pipe or tube)) same ("IC" or die or chip or power)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 06:15
S29 9	100	@ad<="20040120" and refrigerant with (coolant or liquid) same "heat pipe" and ("IC" or die or chip or power)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 13:32
S30 0	4	((("6713851") or ("4951122"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/27 06:27

## EAST Search History

S30 1	1310	@ad<="20040120" and (257/714). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 07:09
S30 2	2445	@ad<="20040120" and (361/704). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 06:31
S30 3	396	@ad<="20040120" and (361/689). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/12 15:39
S30 4	170	@ad<="20040120" and (361/698). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 06:32
S30 5	862	@ad<="20040120" and (361/699). ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 06:32
S30 6	31	("20030133268"   "2942165"   "4012770"   "4106188"   "4381818"   "4995451"   "5150274"   "5210440"   "5262921"   "5349498"   "5448108"   "5455458"   "5606201"   "5780928"   "5880524"   "5966291"   "5986885"   "6016007"   "6037658"   "6055154"   "6141219"   "6397450"   "6400012"   "6414867"   "6424531"   "6473303"   "6535388"   "6594149"   "6892796"   "6937471").PN. OR ("6992887"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/27 06:42
S30 7	618	@ad<="20040120" and (257/714). ccls. and liquid with cool\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 07:10
S30 8	1486	@ad<="20040120" and "heat pipe" with insulat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 13:38
S30 9	1684	@ad<="20040120" and heat adj1 (pipe or tube) with insulat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 13:34

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S31 0	1689	@ad<="20040120" and heat adj1 (pipe or tube) with (insulat\$3 or "dielectric layer")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 13:35
S31 1	160	@ad<="20040120" and heat adj1 (pipe or tube) with (insulat\$3 or "dielectric layer") same power	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 13:37
S31 2	26	@ad<="20040120" and heat adj1 (pipe or tube) with (insulat\$3 or "dielectric layer") same semiconductor same power	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 13:37
S31 3	64	@ad<="20040120" and "heat pipe" with insulat\$4 and semiconductor same power	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 14:06
S31 4	36	"3,739,235"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 14:00
S31 5	4	((("5,408,128") or ("5,826,645"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/27 14:00
S31 6	2382	@ad<="20040120" and heat with (pipe or tube) same lin\$4 with (insulat\$4 or dielctric)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 14:07
S31 7	6269	@ad<="20040120" and ("heat pipe" or tube) same lin\$3 with (insulat\$4 or dielctric)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 14:10
S31 8	0	@ad<="20040120" and ("heat pipe" or tube) same lin\$3 with dielctric	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 14:09
S32 0	44	@ad<="20040120" and ("heat pipe" or tube) with lining with dielectric	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 14:13

## EAST Search History

S32 1	45	@ad<="20040120" and ("heat pipe" or tube) with lined with dielectric	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 14:11
S32 2	18	@ad<="20040120" and "heat pipe" same wick with dielectric	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 14:14
S32 3	52	@ad<="20040120" and "heat pipe" with ("external terminal" or lead) and (die or chip or "IC")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 14:32
S32 4	1	North-Mark.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/27 14:32
S32 5	9	North-Mark-t.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/12 15:49
S32 6	2	("4727455").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/27 14:35
S32 7	29	("4212349"   "4327399"   "4551787").PN. OR ("4727455").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/27 14:42